

430 Respect

	CFIGURE U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	E ATTORNEYS DOCKET NUMBER								
TRANSMITTAL LETTER TO THE UNITED STATES Mewburn										
	DESIGNATED/ELECTED OFFICE (DO/EO/US)									
	CONCERNING A FILING UNDER 35 U.S.C. 371	not yet assigned 7098								
PC	RNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE 14 May 1999	PRIORITY DATE CLAIMED 19 May 1998								
	E OF INVENTION	<u> </u>								
MI A DDI	MIMOTOPES OF HYPERVARIABLE REGION 1 OF THE E2 CLYCOPROTEIN OF HCV AND USES THEREOF									
APPLICANT(S) FOR DO/EO/US Alfredo NICOSIA; Armin LAHM; Anna TRAMONTANO; Riccardo CORTESE										
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:										
 This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 										
5. [6. [A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. is transmitted herewith (required only if not transmitted by the International Bureau). b. has been transmitted by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US) A translation of the International Application into English (35 U.S.C. 371(c)(2)). 									
	a. \(\square \) are transmitted herewith (required only if not transmitted by the International Bureau). b. \(\square \) have been transmitted by the International Bureau c. \(\square \) have not been made; however, the time limit for making such amendments has NOT expired.									
8). C	A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
==	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).									
 0. C	A translation of the annexes to the International Preliminary Examination Repo	ext under PCT Article 36								
tems 11. to 16. below concern other document(s) or information included: 1. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.										
Ž. C	2. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.									
3. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment.										
4. C	A substitute specification.									
5. C	☐ A change of power of attorney and/or address letter.									
6. D	Other items or information:									
	Copy of Form PCT/IB/308	•								

430 Rec'd PC PTO 1 8 JAN 2000

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Katleen D. Rigaut, Ph.D., J.D. DANN, DORFMAN, HERRELL AND SKILLMAN Kathleen D. Rigaut, Ph.D. I.D. Kathleen D. Rigaut, Ph.D. I.D.										
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MEWBURN ELLIS

PATENTS - TRADE MARKS - DESIGNS

<u>URGENT</u>

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13 August 1999

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URGENT REQUEST FOR RECTIFICATION

Dear Sirs

International Patent Application No PCT/EP99/03344
Applicant: Istituto Di Ricerche Di Biologia Molecolare P. Angeletti S.p.A.
Our Ref: SMW/FP5769302

I write to request the rectification of an error in this patent application under Rule 91 of the PCT. Enclosed are

- (I) a replacement page 80 of the description, in triplicate;
- (II) hand-amended description page 80, showing the error and correction;
- (III) Nishihara, et al, (1993), Gene, 129: 207-214.

The error is in the nucleotide sequence of "oligo rev" (page 80, line 11). The originally filed application shows an "L" three bases from the end. This should be a T.

The error is obvious. No nucleotide "L" exists.

Rectification of "L" to "T" is also obvious based on the content of the specification. Anyone would immediately realise that nothing else could have been intended.

Page 80 states that "Oligo rev" is used as a reverse primer to clone the Δ E2 gene using the vector described in Nishihara et al as PCR template (see page 80, line 5 to 11 of the present application). This vector is shown in Figure I(B) on page 210 of Nishihara, et al.

The Δ E2 gene codes amino acids 411 to 683 of the HCV polyprotein (Page 79, lines 4 to 9; Page 80, lines 5 to 6 of the application).

Figure 1B of Nishihara shows an antisense primer (primer 31) which anneals to the vector, so as to produce a PCR product which encodes a peptide terminating at amino acid 683. As mentioned above, the Applicant's PCR product (ΔΕ2) encodes a peptide which terminates at amino acid 683. Therefore, the present Applicant's primer "oligo rev" and primer 31 necessarily anneal to the same part of the vector.



The sequence of primer 31 is shown on page 211 of Nishihara (enclosed). For comparison, "oligo rev" and primer 31 are aligned below:

Nucleotides shown in upper case anneal to the vector. Nucleotides shown in lower case do not anneal to the vector, but are extra sequences such as restriction sites and His tag encoding (as explained on page 80 of the specification and in Figure 1B of Nishihara, et al) and can be disregarded for present purposes. Comparison of the sequences which anneal to the vector clearly shows that the annealing sequence should be CGG TAG.

Primer 31 (5' to 3')

tga gaa ttc tta gtg gtg gtg gtg gtg gtg CGG TAG GGT GGAA

Oligo rev (5' to 3')

tcc gga tcc tta gtg gtg gtg gtg gtg gtg CGG LAG

Summarising

It is obvious that there is an error in the sequence of oligo rev on page 80, and obvious that the error is the reference to a nucleotide as "L", there being no such nucleotide.

Furthermore, it is obvious that the rectification offered, namely the nucleotide "T", is the only one that could have been intended.

A time limit has not yet been set for the submission of the sequence listing for this application, but request that the rectification is considered as soon as possible to allow submission of a single, correct sequence listing at the appropriate time.

Yours faithfully

H Alan Gura for Seán M Walton APPOINTED AGENT

Encs:

Replacement page 80 of the description, in triplicate

Hand-amended description page 80

Nishihara, et al, (1993), Gene, 129: 207-214.

KMT/kmt/AG



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COMMISSIONER OF PATENTS AND TRADEMARKS Washington, DC 20231

Date of Mailing January 18, 2000

BOX PCT

Applicant's or Agent's Reference Mewburn Nicosia

IDENTIFICATION OF THE INTERNATIONAL APPLICATION

Int'l. Appln. No.
PCT EP99/03344

Int'l. Filing Date 14 May 1999

Applicant (name)

ISTITUTO DI RICERCHE DI BIOLOGIA MOLECOLARE P. ANGELETTI S.P.A.

TRANSMITTAL OF LETTER TO THE UNITED STATES DESIGNATED/ELECTERD OFFICE (DO/EO/US)

CERTIFICATE OF MAILING BY EXPRESS MAIL UNDER 37 CFR §1.10

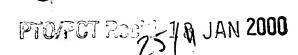
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DATE OF DEPOSIT WITH POSTAL SERVICE January 18, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. §1.10 on the date indicated above, and is addressed to the COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, D.C. 20231.

Jane C. Boqan
Typed Name of Person
Mailing Paper or Fee

Signature of Person Mairing

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PCT/EP99/03344

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29 October 1999

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PCT WIPO

BY FACSIMILE

Dear Sirs

International Patent Application No PCT/EP99/03344

Applicant: Istituto Di Ricerche Di Biologia Molecolare P. Angeletti S.p.A.

Our Ref: SMW/FP5769302

In accordance with Rule 91.1(f), I request publication of a request for rectification of an error which has been refused by the EPO as International Searching Authority. In this respect, please debit the requisite official fees of CHF 86.00 from out deposit account number 23187 under reference number WF0069.

I enclose a copy of the request for rectification (including a hand-amended copy of page 80), and a clean copy of the rectified page 80.

Yours faithfully

Simon M Kremer for Seán M Walton

APPOINTED AGENT

Encs: Copy of Request for Rectification

Hand-amended page 80 Replacement page 80

SMW/smw/AG